

AMENDED CLAIM SET:

1. (currently amended) A method for producing an optical device having an organic polymer film through which a light beam is transmitted, which comprises

applying a solution containing an organic polymer film-forming starting material on a substrate to form the applied film,

heating the applied film under atmospheric pressure,

and then baking the applied film under vacuum of 1 Torr or lower to form the organic polymer film,

wherein the organic polymer film has a transmittance of not less than 93% in the wavelength of 650 nm ~~an absorptivity coefficient of light of not more than 7.0 mm^{-1} when the light beam has a wavelength of $1.5 \mu\text{m}$ or shorter.~~

2. (cancelled).

3. (original) A method according to claim 1, wherein the organic polymer film has an absorptivity coefficient of light of not more than 1.6 mm^{-1} in the wavelength of 650 nm.

4. (currently amended) A method according to claim 1 ~~claims 1 or 2~~, wherein the light beam has a wavelength of 500 nm to 800 nm.

5. (currently amended) A method according to claim 1 ~~claims 1~~
~~or 2~~, wherein the organic polymer film is a polyimide resin film.

6. (previously presented) A method according to claim 5,
wherein the polyimide resin film is a photosensitive polyimide
resin film.

7. (cancelled).

8. (original) A method according to claim 1, wherein the
organic polymer film has a thickness not less than 5 μm and not
more than 200 μm .

9. (cancelled).

10. (original) A method according to claim 1, wherein the
baking is performed under a vacuum of 1×10^{-2} Torr.

11. (currently amended) A method ~~according to claim 6~~, for
producing an optical device having an organic polymer film through
which a light beam is transmitted, which comprises
applying a solution containing an organic polymer film-forming
starting material on a substrate to form the applied film,
heating the applied film under atmospheric pressure,

and then baking the applied film under vacuum of 1 Torr or lower to form the organic polymer film,

wherein the organic polymer film is a photosensitive ~~wherein the photosensitive polyimide resin film is an acetophenone resin film and has a transmittance of not less than 93% in the wavelength of 650 nm.~~

12. (previously presented) A method according to claim 6, wherein the photosensitive polyimide resin film includes a tertiary amine.

13. (previously presented) A method according to claim 1, wherein the organic polymer film-forming starting material is a precursor of a polyimide resin.